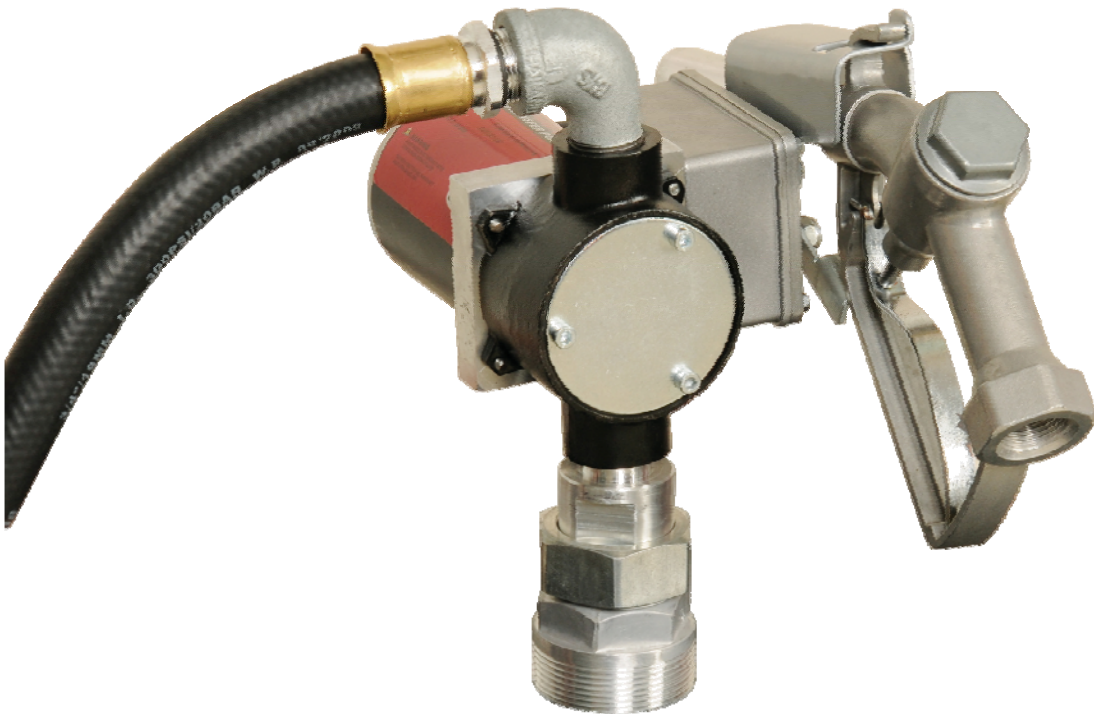


DC/AC Standard Fuel Transfer Pumps

User's Manual



Model No. 10303001/ 10303002/10303003/10303004



WARNING

Read carefully and understand all INSTRUCTIONS before operating.

Failure to follow the safety rules and other basic safety precautions may result in serious personal injury. Save these instructions in a safe place and on hand so that they can be read when required.

SAFETY INSTRUCTIONS

To ensure safe and efficient operation, it is essential to read and follow each of these warnings and precautions.

1. DO NOT smoke near pump or use pump near an open flame. Fire could result.
2. Disconnect power to pump before servicing pump.
3. Turn off the switch before connecting power.
4. Take motors needing service to an authorized repair shop or return to factory to maintain.
5. A filter should be used on pump outlet to ensure that no foreign material is transferred to fuel tank.
6. Tank or barrel should be anchored to prevent tipping in both the full and empty conditions.



WARNING

1. Electrical wiring should be done a licensed electrician in compliance with local codes. Rigid conduit should be used and proper ground must be provided to avoid the possibility of electrical shock. Failure to comply with this warning could result in serious injury and/or loss of property.
2. This product should not be used for fluid transfer into aircraft. This product is not suited for use with fluids for human consumption or fluids containing water.
3. Extreme operating conditions with working cycles longer than 30 minutes can cause the motor temperature to rise, thus damaging the motor itself. Each 30-minute working cycle should always be followed by a 30-minute power-off cooling phase.

GENERAL DESCRIPTION

These products are positive displacement, rotary vane pumps. Depending on installation and viscosity, these pumps can deliver up to 8GPM or 30LPM. Their rugged design makes for a long life of dependability.

TECHNICAL INFORMATION

- Inlet: 2" male on tank adapter, 3/4" female on pump
- Outlet: 3/4" female for 8GPM/30LPM
- Built-in bypass valve.
- Furnished with:
 - 13ft/4m delivery hose
 - 1pc steel suction pipe
 - 1pc Aluminum manual nozzle.
 - 2" Quick change coupling
- Electrical Specification

PUMP MODEL	ELECTRICAL POWER		CURRENT	Flow Rate (L/min /GPM)
	Current	Voltage	Maximum (Amp)	
10303001	DC	12	25	30/8
10303002	DC	24	20	30/8
10303003	AC	120	3.15	30/8
10303004	AC	230	3.15	30/8

OPERATING CONDITIONS

Temperature: min -20°C / max +60°C

Relative Humidity: max 90%

FLUID COMPATIBILITY

These products are compatible with the following fluids:

Diesel, Kerosene, Mineral Spirits

 Do NOT use with other fluids without consulting manufacturer.

INSTALLATION INSTRUCTIONS

1. Tightly screw suction pipe into inlet coupling of pumping unit. Extend suction pipe into truck tank or barrel to within 3" of tank bottom.
2. Screw inlet coupling of pump into 2" tank or barrel opening. Inlet coupling must be completely and securely threaded into an undamaged tank or barrel bung.
3. During installation and maintenance, make sure that the electric supply lines are not live.
4. Always turn off the switch before supplying electrical power.
5. Check the correct rotation direction of the DC pump. If it is inverted, check the polarity of the connection cable.
 - a) RED cable: positive pole (+)
 - b) BLACK cable: negative pole (-)
6. Systems should be designed to require a minimum amount of suction lift. Maximum "equivalent feet of lift" is 8' for diesel fuel.
7. Tank or barrel must be properly vented. A water separator should be used for pumping diesel fuel.
8. Power to the unit should be supplied from a dedicated 30 amp circuit breaker. No other equipment should be powered from this breaker. If two pumps are supplied from one breaker, that breaker must be capable of handling the load of both motors.

PROBLEMS AND SOLUTIONS

Problem	Possible Cause	Corrective Action
The motor is not turning	Lack of electric power	Check the electrical connections and the safety systems
	Rotor jams	Check for possible damage or obstruction of the rotating components.
	Motor problems	Contact with the service department
Low or no flow rate	Low level in the suction tank	Refill the tank
	Foot valve blocked	Clean and/or replace the valve
	Filter clogged	Clean the filter
	Excessive suction pressure	Lower the pump with respect to the Level
	High loss of head in the circuit (working with the by-pass open)	Use shorter tubing or of greater Diameter
	By-pass valve blocked	Dismantle the valve, clean and/or replace it
	Air entering the pump or the suction tubing	Check the seals of the connections
	A narrowing in the suction Tubing	Use tubing suitable for working under suction pressure
	Low rotation speed	Check the voltage at the pump. Adjust the voltage and/or use cables of greater cross-section
	The suction tubing is resting on the bottom of the tank	Raise the tubing
Increased pump noise	Cavitations occurring	Reduce suction pressure
	Irregular functioning of the by-pass	Dispense until the air is purged from the circuit
	Air present in the diesel fuel	Verify the suction connections
Leakage from the pump body	Seal damaged	Check and replace the mechanical seal

Daily Use

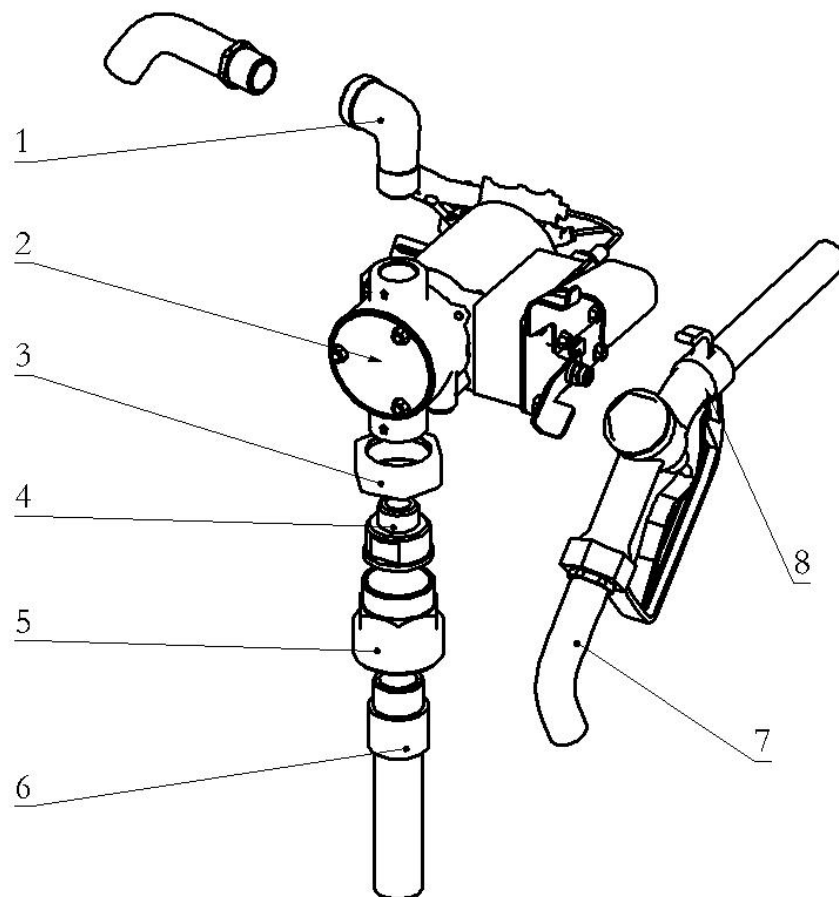
- If using flexible tubing, attach the ends of the tubing to the tanks. In the absence of an appropriate slot, solidly grasp the delivery tube before beginning dispensing.
- Before starting the pump make sure that the delivery valve is closed (dispensing nozzle or line valve).
- Turn the ON/OFF switch to ON. The by-pass valve allows functioning with the delivery closed for only brief periods.
- Open the delivery valve, solidly grasping the end of the tubing.
- Close the delivery valve to stop dispensing.
- When dispensing is finished, turn off the pump.

MAINTENANCE

Under normal working conditions the noise emission from all models does not exceed the value of 80 db at a distance of 1 meter from the electric pump.

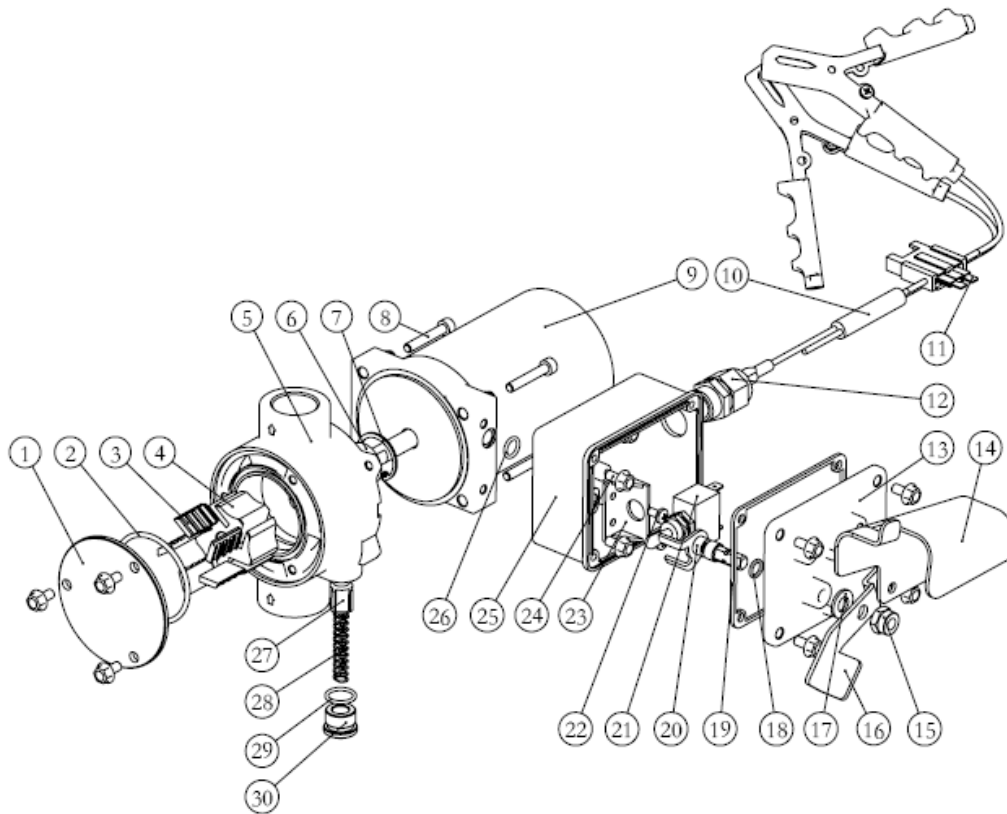
DIGRAM AND PARTS LIST

A. FOR KIT



Part No	Component Description	Quantity
1	90° Elbow	1
2	Fuel pump	1
3	Nut	1
4	Adapter	1
5	Tank Adapter	1
6	Extensible Pipe	1
7	4m Delivery hose	1
8	Manual nozzle	1

B. FOR SINGLE PUMP



No.	Description	Qty.	No.	Description	Qty.
1	Front cover	1	17	Washer	1
2	O-ring	1	18	O-ring	1
3	Blade	5	19	Seal	1
4	Rotor	1	20	Fork for turning switch	1
5	Pump chamber	1	21	Switch	1
6	Seals	1	22	Bolt	2
7	Spring collar	1	23	Switch bracket	1
8	Hex bolt	1	24	Hexagon flange bolts	11
9	Electric Motor	1	25	Junction box	1
10	DC Power cable with Fuse carrier	1	26	O-ring	1
11	Fuse	1	27	Valve	1
12	Cable clip	1	28	Spring	1
13	Junction box cover	1	29	O-ring	1
14	Nozzle holder	1	30	Sealed screw	1
15	nylon self-locking screw	1			
16	Switch connector	1			